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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for transporting a molecule through a mammalian barrier membrane of at least one layer of cells comprising the steps of:

ablating said membrane with a shear device comprising a sheet containing at least one opening and a shear member, where said sheet is contacted with said membrane such that a portion of said membrane is forced through said opening and <u>said shear member</u> ablates said portion of said membrane exposed through said opening; and

utilizing a driving force to move said molecule through said perforated membrane.

- 2. (Original) A method of claim 1, wherein said shear member is a shear blade.
- 3. (Original) A method of claim 2, wherein said portion of said membrane is forced into said opening by a pressure force.
- 4. (Original) A method of claim 3, wherein said pressure force is mechanical pressure.
 - 5. (Original) A method of claim 3, wherein said pressure force is suction.
- 6. (Currently Amended) A method of claim <u>42</u>, wherein said shear device further comprises a driving unit to move said <u>shear</u> blade.
- 7. (Original) A method of claim 6, wherein said driving unit is powered manually by the user of the device.
- 8. (Original) A method of claim 6, wherein said driving unit is powered by an electric motor.

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- 9. (Original) A method of claim 1, wherein said membrane is selected from the group consisting of skin, buccal, vaginal, and rectal membranes.
 - 10. (Original) A method of claim 1, wherein said membrane is human skin.
- 11. (Original) A method of claim 1, wherein said driving force is selected from a group consisting of iontophoresis, electro-osmosis, reverse iontophoresis, electroporation, phonophoresis, pressure gradients, and concentration gradients.
- 12. (Original) A method of claim 1, wherein said molecule is a pharmaceutical transported through said membrane into said mammal.
- 13. (Original) A method of claim 12, wherein said pharmaceutical is selected from the group consisting of polysaccharides, peptides, proteins, and polynucleotides.
 - 14. (Original) A method of claim 12, wherein said molecule is a vaccine.
- 15. (Original) A method of claim 14, wherein said molecule is a vaccine against Staphylococcus aureus
- 16. (Original) A method of claim 1, wherein said molecule is transported from within said mammal out through said membrane.
 - 17. (Original) A method of claim 16, wherein said molecule is glucose.
- 18. (Original) A method of claim 6, wherein said device further comprises a sensor, the feedback from said sensor modifies said driving unit.
- 19. (Original) A method of claim 18, wherein said sensor is selected from the group consisting of pressure sensor, conductivity sensor, impedance sensor, pH and temperature sensor.

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- 20. (Currently Amended) A method of claim 1, wherein said sheer-shear member moves parallel to said sheer-shear sheet.
- 21. (Currently Amended) A method of claim 2, wherein said sheer shear blade moves parallel to said sheer shear sheet.
- 22. (Original) A method of claim 19, wherein said sensor is an impedance sensor measuring the impedance of the barrier membrane.
- 23. (Original)A method of claim 22, wherein the measurements from said impedance sensor are relayed to a microprocessor.